AMENDMENT TO THE CLAIMS

This listing of claims replaces all prior versions and listings of all claims in the application:

- (Currently amended) A variant RANKL protein, wherein said variant RANKL
 protein comprises modifications at at least one of the following positions comprising
 an amino acid modification at C221 and I247 and at at least one position selected
 from the group consisting of: H180, K181, H189, D190, R191, G192, S197, R223, R223,
 H225, E226, T227, S228, Q237, K248, I249, H253, S268, E269, F270, R284, S297, D300,
 and D302 as compared to amino acids 68-317 (SEQ ID NO: 1) of full-length wild-type
 human RANKL.
- (Currently amended) A variant RANKL protein according to claim 1, wherein said substitutions comprise combinations of said variant RANKL protein comprises at least one set of substitutions selected from the group consisting of: a) E269 and F270, b) H225 and E269, c) H225 and F270, d) H225 and E269, e) H225 and F270, d) R191 and I249, g)e) G192 and H225, h)j) H225 and I249, h)j) H225 and I249, h)j) E226 and I249, k)j) T227 and K248, l) E226 and I249, m) T227 and K248, n)j) S228 and I249, e)k)
 D190 and K248, p)l) D190 and H225, q) D190 and K248, r) G192 and H225, s) D190 and H225, t)m) G192 and K248, w)j) H225, E226 and F270, v)o) R191, E226 and K248, w)R191, E226 and K248, w)g) G192, K248 and F270, v)and q) G192, H225 and I249, and r) G192, H225 and I249.
- (Currently amended) A variant RANKL protein according to claim 1, wherein said variant RANKL protein comprises <u>substitutions C221S/I247E</u> and at least one <u>substation-further substitution selected from the group consisting of: H180E, K181Q, K181E, H189R, R191Q, R191E, G192A, S197E, R223M, R223E, R223Q, H225T, H225N, H225E, H225R, E226Q, E226D, E226R, T227K, S228E, S228H, Q237T, Q237K, Q237E,
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- K248E, I249Q, H253S, H253T, S268D, E269R, E269T, E269Q, E269K, F270T, F270K, F270E, F270V, R284E, S297O, D300N, D302H, and D302E.
- 4. (Currently amended) A variant RANKL protein according to claim 1, wherein said substitutions comprise combinations of said variant RANKL protein comprises substitutions C2215/I247E and at least one further set of substitutions selected from the group consisting of: a) E269T and F270T, b) H225E and E269K, c) H225E and F270T, d) H225R and E269K, e) H225R and F270T, f)R191E and I249R, g) G192A and H225N, h) H225N and I249R, I) H225R and I249R, j) E226R and I249R, k) T227Q and K248E, J) E226Q and I249R, m) T227K and K248E, n) S228E and I249R, o) D190T and K248E, p) D190T and H225R, d) D190Q and K248E, r) G192A and H225R, s) D190Q and H225R, t) G192A and K248E, u) H225E, E226D and F270T, v) R191K, E226R and K248E, w) R191K, E226Q and K248E, x) G192A, K248E and F270T, y) G192A, H225N and I249R, and z) G192A, H225R and I249R, and z) G192A, H225R and I249R.
- (Currently amended) A variant RANKL protein according to claim 1, wherein said variant RANKL protein comprises <u>substitutions C221S/I247E and</u> at least one <u>further</u> substitution selected from the group consisting of: H180E, K181Q, K181E, R191E, R223M, R223E, R223Q, E226R, T227K, S228E, S228H, Q237K, K248E, I249R, E269T, E269O, D302E, H253S, and H253T.
- (Original) A variant RANKL protein according to claim 1, wherein said variant RANKL protein is an antagonist.
- (Original) A variant RANKL protein according to claim 6, wherein said variant RANKL protein is substantially unable to bind RANK receptor.
- (Original) A variant RANKL protein according to claim 6, wherein said variant RANKL protein is substantially unable to bind OPG.

- (Original) A variant RANKL protein according to claim 6, wherein said variant RANKL protein binds to a RANK receptor but does not substantially activate the RANK receptor.
- (Original) A variant RANKL protein according to claim 9, wherein said variant RANKL protein is substantially unable to bind OPG.
- (Currently amended) A variant RANKL protein according to claim 1, wherein said variant RANKL protein is selected from at least one of the following positions comprises a modification at at least one position selected from the group consisting of: a) G192, b) R223, c) Q237, d) H225, e) E269, f) I249, g) K248, h) E269 and i) h)
- (Currently amended) A variant RANKL protein according to claim 11, wherein said substitutions comprise combinations variant RANKL protein comprises modifications at at least one set of positions selected from the group consisting of: (a) H225 and E269; (b) H225 and F270; (c) G192[[A]], H225, and I249[[)]]; and (d) G192, K248 and E270
- (Currently amended) A variant RANKL protein according to claim 11, wherein said variant RANKL protein comprises <u>substitutions C221S/I247E</u> and at least one <u>further</u> substitution selected from the group consisting of: R223M, R223E, R223Q, and C237K.
- 14. (Currently amended) A variant RANKL protein according to claim 11, wherein said substitutions comprise combinations variant RANKL protein comprises substitutions C221S/1247E and at least one further set of substitutions selected from the group consisting of: a) H225R and E269K, b) H225R and F270T, c) G192A, K248E and F270T, d) G192A, H225N and I249R, and e) G192A, H225R and I249R.

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- (Original) A variant RANKL protein according to claim 11, wherein said variant RANKL protein does not substantially bind to OPG.
- (Currently amended) A variant RANKL protein according to claim I, wherein said variant RANKL protein comprises modifications at least one of the following positions-a modification at at least one position selected from the group consisting of: R191, G192, H225, E226, K248, H249 I249, E269, and F270.
- 17. (Currently amended) A variant RANKL protein according to claim 16, wherein said variant RANKL protein comprises at least one pair of substitutions modifications at at least one set of positions selected from the group consisting of: (a) E269 and F270; (b) H225 and E269; (c) H225 and F270; (d) G192 and H225; (e) H225 and I249; (f) R191, E226 and K248 (g) G192, H225 and I249.
- (Original) A variant RANKL protein according to claim 16, wherein said variant RANKL protein does not substantially bind to RANK.
- 19. (Currently amended) A variant RANKL protein according to claim 16, wherein said variant RANKL protein comprises <u>substitutions C2215/I247E and</u> at least one <u>further set of substitutions</u> selected from the group consisting of: H225T, H225N, H225E, H225R, E226Q, E269R, E269K, F270K, F270E, E269T and F270T, H225E and E269K, H225E and F270T, H225E and E269K, H225E and F270T, H225R and E269K, H225R and F270T, G192A and H225N, H225N and I249R, H225R and I249R, G192A and K248E, R191K and E226R and K248E, R191K and E226Q and K248E, G192A and K248E and F270T, and G192A and H225N and I249R.
- (Original) A variant RANKL protein according to claim 1, wherein said variant RANKL protein does not substantially activate osteoclastogenesis.
- (Currently amended) A variant RANKL protein according to claim 20, wherein said variant RANKL protein comprises modifications at at least one of the following

- positions a modification at at least one position selected from the group consisting of: K181, D190, R191, G192, R223, H225, E226, T227, S228, Q237, K248, 12491249. H253, E269, F270, S297, and D302.
- 22. (Currently amended) A variant RANKI. protein according to claim 20, wherein said variant RANKI. protein comprises modifications at at least one of the following sets of positions set of positions selected from the group consisting of: (a) H225 and E269; (b) H225 and F270; (c) R191 and I249; (d) G192 and H225; (e) H225 and I249; (f) T227 and K248; (g) D190 and H225; (h) H225[[E]], E226 and F270; (i) R191, E226, and K248; (j) G192, K248, and F270; and (k) G192, H225 and I249.
- (Currently amended) A variant RANKL protein according to claim 21, wherein said variant RANKL protein comprises <u>substitutions C221S/I247E and</u> at least one <u>further</u> substitution selected from the group consisting of: K181Q, K181E, R191Q, R191E, R223M, R223E, H225T, H225N, H225E, H225R, E226Q, E226D, S228E, S228H, Q237K, Q237E, H253S, H253T, E269R, E269T, E269Q, E269K, F270T, F270K, F270E, F270E, F270E, S297Q, and D302E.
- 24. (Currently amended) A variant RANKL protein according to claim 21, wherein said variant RANKL protein comprises <u>substitutions C221S/I247E</u> and at least one further set of substitutions selected from the group consisting of: modifications at at least one of the following sets of positions: a) H225E and E269K, b) H225E and F270T, c) H225R and E269K, d) R191E and I249R, e) G192A and H225N, f) H225N and I249R, g) H225R and I249R, h) <u>227QT227Q</u> and K248E, i) G192A and H225R, j) D190Q and H225R, k) G192A and K248E, l) H225E, E226D and F270T, m) R191K, E226R and K248E, n) R191K, E226Q and K248E, o) G192A, K248E and F270T, and p) G192A, H225N and I249R.
- (Currently amended) A variant RANKL protein according to claim 1, wherein said variant RANKL protein comprises modifications at at least one of the following

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- positions a modification at at least one position selected from the group consisting of: in H180, K181, R223, E226, T227, S228, O237, E269, D302, and H253.
- (Currently amended) A variant RANKL protein according to claim 25, wherein said variant RANKL protein comprises <u>substitutions C221S/I247E and at least one</u> modification <u>further substitution</u> selected from the group consisting of: H180E, K181Q, K181E, R223M, R223E, R223Q, E226R, T227K, S228E, S228H, Q237K, E269T, E269Q, H253S, H253T, and D302E.
- (Withdrawn currently amended) A variant RANKL protein according to claim 1
 wherein said variant RANKL protein comprises modifications at at least one of the
 following sets of positionsset of positions selected from the group consisting of: a)
 R191 and 1249 orand b) T227 and K248.
- (Withdrawn currently amended) A variant RANKL protein according to claim 27, wherein said variant RANKL protein comprises <u>substitutions C221S/1247E and at least one further set of substitutions selected from the group consisting of:</u> modifications at at least one of the following sets of positions: a) R191E and 1249R orand b) T227Q and K248E.
- (Original) A variant RANKL protein according to claim 1, wherein said variant RANKL protein functions as a competitive inhibitor of wild type RANKL.
- (Original) A variant RANKL protein according to claim 1, wherein said variant protein is chemically modified.
- 31. (Currently amended) A variant RANKL protein according to claim [[28]]30. wherein said chemical modification is selected from the group consisting of: PEGylation; glycosylation; and a fusion of said variant protein to another entity.

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- 32. (Previously presented) A pharmaceutical composition comprising a variant RANKL protein according to claim 1 and a pharmaceutical carrier.
- (Withdrawn) A method for treating a RANKL-related condition comprising administration of a variant RANKL protein according to claim 1.